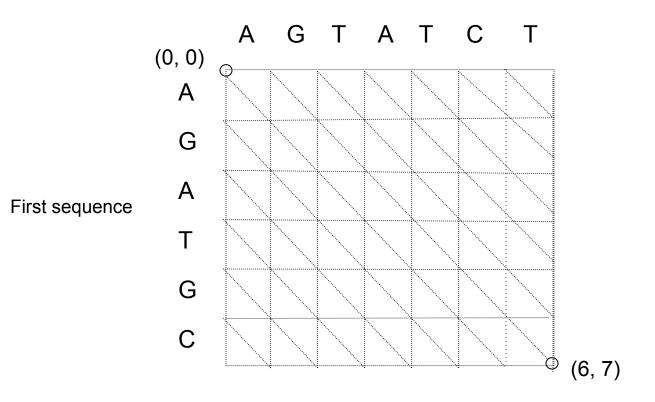
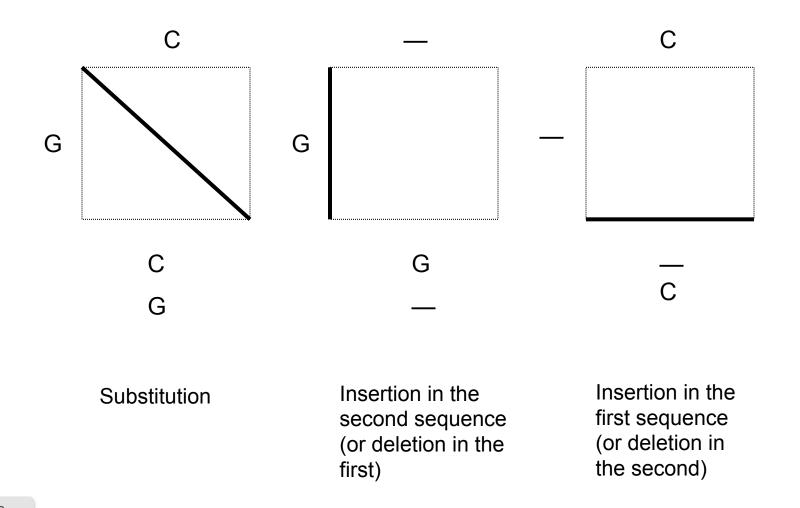
4. Sequence comparison

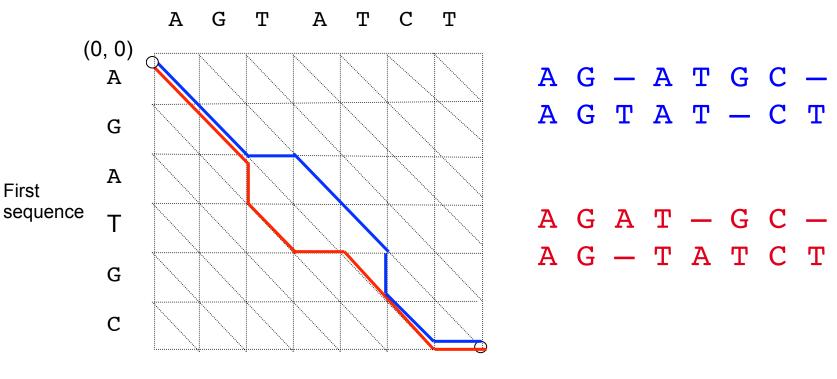
- How to predict gene/protein functions?
- Why gene/protein sequences may be similar?
- Measuring sequence similarity
- Aligning sequences is an optimization problem
- A sequence alignment as a path
- A path is optimal if all its sub-paths are optimal
- Alignment costs
- A recursive algorithm
- Recursion can be avoided: an iterative version
- How efficient is this algorithm?







Second sequence



(6, 7)